

<110> Presnell, Scott R.
Kindsvogel, Wayne

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<151> 2000-12-01

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 Lys Ser Asn Phe Gln Gln Pro Tyr Ile Thr Asn Arg Thr Phe Met Leu
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 His Ile Gln Arg Asn Val Gln Lys Leu Lys Asp Thr Val Lys Lys Leu
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 Met Ser Leu Arg Asn Ala Cys Ile
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His Gly Val Ser Met Ser Glu Arg Cys Tyr Leu Met Lys Gln Val Leu
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Val Gln Lys Leu Lys Asp Thr Val Lys Lys Leu Gly Glu Ser Gly Glu
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Met Met Pro Lys His Cys Phe Leu Gly Phe Leu Ile Ser Phe Phe Leu
1 5 10 15

48

act ggt gta gca gga act cag tca acg cat gag tct ctg aag cct cag
Thr Gly Val Ala Gly Thr Gln Ser Thr His Glu Ser Leu Lys Pro Gln
20 25 30

96

agg gta caa ttt cag tcc cga aat ttt cac aac att ttg caa tgg cag
Arg Val Gln Phe Gln Ser Arg Asn Phe His Asn Ile Leu Gln Trp Gln
35 40 45

144

cct ggg agg gca ctt act ggc aac agc agt gtc tat ttt gtg caa tac

192

Pro	Gly	Arg	Ala	Leu	Thr	Gly	Asn	Ser	Ser	Val	Tyr	Phe	Val	Gln	Tyr		
	50					55					60						
aaa	ata	tat	gga	cag	aga	caa	tgg	aaa	aat	aaa	gaa	gac	tgt	tgg	ggt	240	
Lys	Ile	Tyr	Gly	Gln	Arg	Gln	Trp	Lys	Asn	Lys	Glu	Asp	Cys	Trp	Gly		
	65				70				75					80			
act	caa	gaa	ctc	tct	tgt	gac	ctt	acc	agt	gaa	acc	tca	gac	ata	cag	288	
Thr	Gln	Glu	Leu	Ser	Cys	Asp	Leu	Thr	Ser	Glu	Thr	Ser	Asp	Ile	Gln		
				85				90						95			
gaa	cct	tat	tac	ggg	agg	gtg	agg	gcg	gcc	tcg	gct	ggg	agc	tac	tca	336	
Glu	Pro	Tyr	Tyr	Gly	Arg	Val	Arg	Ala	Ala	Ser	Ala	Gly	Ser	Tyr	Ser		
			100					105					110				
gaa	tgg	agc	atg	acg	ccg	cgg	ttc	act	ccc	tgg	tgg	gaa	aca	aaa	ata	384	
Glu	Trp	Ser	Met	Thr	Pro	Arg	Phe	Thr	Pro	Trp	Trp	Glu	Thr	Lys	Ile		
		115					120					125					
gat	cct	cca	gtc	atg	aat	ata	acc	caa	gtc	aat	ggc	tct	ttg	ttg	gta	432	
Asp	Pro	Pro	Val	Met	Asn	Ile	Thr	Gln	Val	Asn	Gly	Ser	Leu	Leu	Val		
	130					135					140						
att	ctc	cat	gct	cca	aat	tta	cca	tat	aga	tac	caa	aag	gaa	aaa	aat	480	
Ile	Leu	His	Ala	Pro	Asn	Leu	Pro	Tyr	Arg	Tyr	Gln	Lys	Glu	Lys	Asn		
	145				150					155					160		
gta	tct	ata	gaa	gat	tac	tat	gaa	cta	cta	tac	cga	gtt	ttt	ata	att	528	
Val	Ser	Ile	Glu	Asp	Tyr	Tyr	Glu	Leu	Leu	Tyr	Arg	Val	Phe	Ile	Ile		
				165				170						175			
aac	aat	tca	cta	gaa	aag	gag	caa	aag	gtt	tat	gaa	ggg	gct	cac	aga	576	
Asn	Asn	Ser	Leu	Glu	Lys	Glu	Gln	Lys	Val	Tyr	Glu	Gly	Ala	His	Arg		
			180					185					190				
gcg	gtt	gaa	att	gaa	gct	cta	aca	cca	cac	tcc	agc	tac	tgt	gta	gtg	624	
Ala	Val	Glu	Ile	Glu	Ala	Leu	Thr	Pro	His	Ser	Ser	Tyr	Cys	Val	Val		
		195				200						205					
gct	gaa	ata	tat	cag	ccc	atg	tta	gac	aga	aga	agt	cag	aga	agt	gaa	672	
Ala	Glu	Ile	Tyr	Gln	Pro	Met	Leu	Asp	Arg	Arg	Ser	Gln	Arg	Ser	Glu		
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<213> Homo sapiens
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			20					25					30		
Arg	Val	Gln	Phe	Gln	Ser	Arg	Asn	Phe	His	Asn	Ile	Leu	Gln	Trp	Gln
		35					40					45			
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<210> 34
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<212> PRT
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<220>
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<400> 34
Lys Glu Ala Ser Leu Ala Asp Asn Asn Thr Asp Val Arg Leu Ile Gly
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Glu Lys Leu Phe His Gly Val Ser Met Ser Glu Arg Cys
20 25

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<223> Human ZCYT018 peptide 2 (huZCYT018-2)

<400> 35

Glu	Glu	Val	Leu	Phe	Pro	Gln	Ser	Asp	Arg	Phe	Gln	Pro	Tyr	Met	Gln
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			20												

<210> 36

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Human ZCYT018 peptide 3 (huZCYT018-3)

<400> 36

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1				5					10					15	
Gly	Glu	Ile	Lys	Ala	Ile	Gly	Glu								
			20												

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<211> 778

<212> DNA

<213> mus musculus

<220>

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<222> (47)...(583)

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ctg	cag	aaa	tct	atg	agt	ttt	tcc	ctt	atg	ggg	act	ttg	gcc	gcc	agc	103
Leu	Gln	Lys	Ser	Met	Ser	Phe	Ser	Leu	Met	Gly	Thr	Leu	Ala	Ala	Ser	
		5					10				15					
tgc	ctg	ctt	ctc	att	gcc	ctg	tgg	gcc	cag	gag	gca	aat	gcg	ctg	ccc	151
Cys	Leu	Leu	Leu	Ile	Ala	Leu	Trp	Ala	Gln	Glu	Ala	Asn	Ala	Leu	Pro	
		20				25				30					35	

gtc aac acc cgg tgc aag ctt gag gtg tcc aac ttc cag cag ccg tac 199
 Val Asn Thr Arg Cys Lys Leu Glu Val Ser Asn Phe Gln Gln Pro Tyr
 40 45 50

atc gtc aac cgc acc ttt atg ctg gcc aag gag gcc agc ctt gca gat 247
 Ile Val Asn Arg Thr Phe Met Leu Ala Lys Glu Ala Ser Leu Ala Asp
 55 60 65

aac aac aca gat gtc cgg ctc atc ggg gag aaa ctg ttc cga gga gtc 295
 Asn Asn Thr Asp Val Arg Leu Ile Gly Glu Lys Leu Phe Arg Gly Val
 70 75 80

aat gct aag gat cag tgc tac ctg atg aag cag gtg ctc aac ttc acc 343
 Asn Ala Lys Asp Gln Cys Tyr Leu Met Lys Gln Val Leu Asn Phe Thr
 85 90 95

ctg gaa gac gtt ctg ctc ccc cag tca gac agg ttc cag ccc tac atg 391
 Leu Glu Asp Val Leu Leu Pro Gln Ser Asp Arg Phe Gln Pro Tyr Met
 100 105 110 115

cag gag gtg gtg cct ttc ctg acc aaa ctc agc aat cag ctc agc tcc 439
 Gln Glu Val Val Pro Phe Leu Thr Lys Leu Ser Asn Gln Leu Ser Ser
 120 125 130

tgt cac atc agc ggt gac gac cag aac atc cag aag aat gtc aga agg 487
 Cys His Ile Ser Gly Asp Asp Gln Asn Ile Gln Lys Asn Val Arg Arg
 135 140 145

ctg aag gag aca gtg aaa aag ctt gga gag agt gga gag atc aag gcg 535
 Leu Lys Glu Thr Val Lys Lys Leu Gly Glu Ser Gly Glu Ile Lys Ala
 150 155 160

att ggg gaa ctg gac ctg ctg ttt atg tct ctg aga aat gct tgc gtc 583
 Ile Gly Glu Leu Asp Leu Leu Phe Met Ser Leu Arg Asn Ala Cys Val
 165 170 175

tgagcgagaa gaagctagaa aacgaagaac tgctccttcc tgccttctaa aaagaacaat 643
 aagatccctg aatggacttt ttactaaag gaaagtgaga agctaacgct catcatcatt 703
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 agaccagagg tagac 778

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 <213> mus musculus

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 Ala Ala Ser Cys Leu Leu Leu Ile Ala Leu Trp Ala Gln Glu Ala Asn
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 Ala Leu Pro Val Asn Thr Arg Cys Lys Leu Glu Val Ser Asn Phe Gln
 35 40 45
 Gln Pro Tyr Ile Val Asn Arg Thr Phe Met Leu Ala Lys Glu Ala Ser
 50 55 60
 Leu Ala Asp Asn Asn Thr Asp Val Arg Leu Ile Gly Glu Lys Leu Phe
 65 70 75 80
 Arg Gly Val Asn Ala Lys Asp Gln Cys Tyr Leu Met Lys Gln Val Leu
 85 90 95
 Asn Phe Thr Leu Glu Asp Val Leu Leu Pro Gln Ser Asp Arg Phe Gln
 100 105 110
 Pro Tyr Met Gln Glu Val Val Pro Phe Leu Thr Lys Leu Ser Asn Gln
 115 120 125
 Leu Ser Ser Cys His Ile Ser Gly Asp Asp Gln Asn Ile Gln Lys Asn
 130 135 140
 Val Arg Arg Leu Lys Glu Thr Val Lys Lys Leu Gly Glu Ser Gly Glu
 145 150 155 160
 Ile Lys Ala Ile Gly Glu Leu Asp Leu Leu Phe Met Ser Leu Arg Asn
 165 170 175
 Ala Cys Val

<210> 39
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 <212> DNA
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<220>
 <223> Oligonucleotide primer ZC37125

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<210> 40
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<223> Oligonucleotide primer ZC37126

32

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<223> Oligonucleotide primer ZC28348

25

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17

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<223> Oligonucleotide primer ZC976

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